

Notice of Allowability

Application No.

09/516,082

Examiner

Eugene Lee

Applicant(s)

MURAKAMI ET AL.

Art Unit

2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/14/07.
2. ☒ The allowed claim(s) is/are 46-49, 52, 53, 56-79, 81, 83-108 and 119-145.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

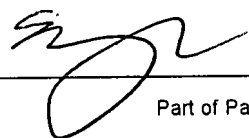
4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 3/13/07
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EUGENE LEE
PRIMARY EXAMINER



DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- in claim 139, replace "A device according to claim 109" to "A device according to claim 46"
- in claim 140, replace "A device according to claim 110" to "A device according to claim 47"
- in claim 141, replace "A device according to claim 112" to "A device according to claim 52"
- in claim 142, replace "A device according to claim 113" to "A device according to claim 56"
- in claim 143, replace "A device according to claim 115" to "A device according to claim 58"
- in claim 144, replace "A device according to claim 116" to "A device according to claim 59"
- in claim 145, replace "A device according to claim 118" to "A device according to claim 61"

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Authorization for this examiner's amendment was given in a telephone interview with Mark Murphy on 8/24/07.

Allowable Subject Matter

2. Claims 46 thru 49, 52, 53, 56 thru 79, 81, 83 thru 108, and 119 thru 145 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a color filter formed over the interlayer insulating film and the first conductive layer, wherein an opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the opening is formed.

Regarding claims 48, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a color filter formed over the interlayer insulating film, wherein an opening is formed in the color filter; and a pixel electrode formed over the color filter; wherein the pixel electrode is electrically connected to the first thin film transistor through the opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the opening is formed.

Regarding claims 52, 58, 61, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a color filter formed over the passivation film, wherein an opening is formed in the color filter;

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and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the opening is formed.

Regarding claims 56, 59, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a color filter formed over the interlayer insulating film, the first conductive layer and the first thin film transistor, wherein an opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the opening is formed.

Regarding claims 57, 60, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a color filter formed over the interlayer insulating film and the first thin film transistor, wherein an opening is formed in the color filter; and a pixel electrode formed over the color filter wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the opening is formed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 571-272-1733. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Lee
August 24, 2007



EUGENE LEE
PRIMARY EXAMINER